

>gi|20544143|ref|NM_001893.3| Homo sapiens casein kinase 1, delta
(CSNK1D), transcript variant 1, mRNA
GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCTCGGACTGTCCCATCCGC
CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCGGTGAGGGGGGC
GGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAGCGGCGCCGCTCCAGAGTTTCAAGCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCGCCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGG
GCCGGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATG
ATGCAGGGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCAGAGGGGGACTACAACGTCATGGTGA
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CCTGCTGCTTGCTGACCAATGATCAGTCGCATCGAATACATTCAATCAAAGAAGTTTATCCACCGGGAT
GTGAAGCCAGACAACCTTCTCATGGGCTTGGGGAAGAAGGGCAACCTGGTGTACATCATCGACTTCGGGC
TGGCCAAGAAGTACCGGGATGCACGCACCCACCAGCACATCCCCATCGTGAGAACAAGAACCTCACGGG
GACGGCGCGGTACGCCTCCATCAACACGCACCTTGGAAATGAACAATCCGAAGAGATGACTTGGAGTCT
CTGGGCTACGTGCTAATGTACTTCAACCTGGGCTCTCTCCCCCTGGCAGGGGCTGAAGGCTGCCACCAAGA
GACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCCATCGAAGTGTGTGTAAAGGCTACCC
TTCCGAATTTGCCACATACCTGAATTTCTGCCGTTCTTGCCTTTTGACGACAAGCCTGACTACTCGTAC
CTGCGGCAGCTTTTCCGGAATCTGTTCCATCGCCAGGGCTTCTCCTATGACTACGTGTTTCGACTGGAACA
TGCTCAAATTTGGTGCCAGCCGGGCGCGCATGACGCCGAGCGGGAGCGCAGGGACCGAGAGGAGCGGCT
GAGACACTCGCGGAACCCGGCTACCCGCGGCTCCTTCCACAGCCTCCGGCCGCTGCGGGGACGCGAG
GAAGTGGCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCTCTCCG
GCATGGAGAGAGAGCGGAAAGTGAGTATGCGGCTGCACCGCGGGGCCCCGTCAACATCTCCTCGTCCGA
CCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGATTCTTGGTGGGCTGGCTTCCAGTGGT
CTTCAGTCTGTGCTGCACCGATGAGAACTCTCCTTATTGCTGTGAAGGGCAGACAATGCATGGCTGATCT
ACTCTGTTACCAATGGCTTTACTAGTGACACGTCCCCCGGTCTAGGATCGAAATGTAAACACCGGGAGCT
CTCCAGGCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCAC
CGCTGGGGCTGCACTGCGGCCCCCACGTGAACCTCGGTTGTAACGGGGCTGGGAAGAAAAGCAGAGAGAG
AATTGCAGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCGCTGTACTCCCTG
ACGATTCCACTGTAACTACCAATCTTCTACTTGGTTAAGACAGTTTTGTATCATTTTGTCTAAAAATTATT
GGCTTAAATCTGTGTAAAGAA

Figure 1

Homo sapiens casein kinase 1, delta (CSNK1D), transcript variant 2,
mRNA Wild type

GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCGCTCGGACTGTCCCATCCGC
CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCGGTGAGGGGGGC
GGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAGCGGCGCCGCCTCCAGAGTTTCAGACCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGG
GCCGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAACCAAACACCCCTCAGCTCCACATTGAGAGCAAATCTACAAGATG
ATGCAGGGGAGGAGTGGGGCATCCCCACCATCAGATGGTGCGGGGCAGAGGGGGACTACAACGTCATGGTGA
TGAGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTCAGCCTCAAACCGT
CCTGCTGCTTGTGACCAAATGATCAGTCGCATCGAATACATTCATTCAAAGAACTTCATCCACCGGGAT
GTGAAGCCAGACAACTTCCTCATGGGCCTGGGGAAGAAGGGCAACCTGGTGTACATCATCGACTTCGGGC
TGGCCAAGAAGTACCGGGATGCACGCACCCACCAGCACATCCCCATCGTGAGAACAAGAACCTCACGGG
GACGGCGCGGTACGCCTCCATCAACACGCACCTTGAATTTGAACAATCCCGAAGAGATGACTTGGAGTCT
CTGGGCTACGTGCTAATGTACTTCAACCTGGGCTCTCTCCCTGGCAGGGGCTGAAGGCTGCCACCAAGA
GACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTGTGTAAAGGCTACCC
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GAAGTGGCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCGTCTCCG
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AAGTAGCTGCTCGTCTCCCATCGGAAGGCAGCACTGGATTCCCTGGTCGGGTGGCTTCCAGTGGTCTTCAG
TCTGTCGTGCACCGATGAGAACTCTCCTTATTGCTGTGAAGGGCAGACAATGCATGGCTGATCTACTCTG
TTACCAATGGCTTTTACTAGTGACACGTCCCCCGGTCTAGGATCGAAATGTTAACACCGGGAGCTCTCCAG
GCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCACCGCTGG
GGCTGCACTGCGGCCCCCACGTGAACTCGGTTGTAACGGGGCTGGGAAGAAAAGCAGAGAGAGAATTGC
AGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCCCTGTACTCCCTGACGATT
CCACTGTAACACCAATCTTCTACTTGGTTAAGACAGTTTTGTATCATTTTGCTAAAAATTATTGGCTTA
AATCTGTGTAAAGAAA
AAAAAA

Figure 2

A.

>gi|20149530|ref|NP_001884.2| casein kinase 1, delta, isoform 1 [Homo sapiens] Wild Type
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKTKHPQLHIESKIYKMMQGGVGIP TIRW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTSQIPGRVASSGLQSVVHR

B.

>gi|20544145|ref|NP_620693.1| casein kinase 1, delta, isoform 2 [Homo sapiens] Wild Type
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKTKHPQLHIESKIYKMMQGGVGIP TIRW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTSQNSIPFEHHGK

Figure 3

Homo sapiens mutant casein kinase 1, delta (CSNK1D)

GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCTCGGACTGTCCCATCCGC
CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCCGTGAGGGGGGC
GGAGCCGGGAGCCGGACCCGCGAGTAGCGGCAGCAGCGGCCGCCCTCCAGAGTTCAGACCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGG
GCCGGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAAGCCAAACACCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATG
ATGCAGGGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCAGAGGGGGACTACAACGTCATGGTGA
TGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTCAGCCTCAAAACCGT
CCTGCTGCTTGCTGACCAAATGATCAGTCGCATCGAATACATTCAATCAAAGAACTTCATCCACCGGGAT
GTGAAGCCAGACAACCTTCCTCATGGGCCCTGGGGAAGAAGGGCAACCTGGTGTACATCATCGACTTCGGGC
TGGCCAAGAAGTACCGGGATGCACGCACCCACCAGCACATCCCCCTATCGTGAGAACAAGAACCTCACGGG
GACGGCGCGGTACGCCTCCATCAACACGCACCTTGGAAATGAACAATCCCGAAGAGATGACTTGGAGTCT
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GACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTTGTGTAAAGGCTACCC
TTCCGAATTTGCCACATACCTGAATTTCTGCGCTTCCTTGCGTTTTTGACGACAAGCCTGACTACTCGTAC
CTGCGGCAGCTTTTCCGGAATCTGTTCCATCGCCAGGGCTTCTCCTATGACTACGTGTTGACTGGAACA
TGCTCAAATTTGGTGCCAGCCGGGCCCGCGATGACGCCGAGCGGGAGCGCAGGGACCGAGAGGAGCGGCT
GAGACACTCGCGGAACCCGGCTACCCGCGGCCCTCCCTTCCACAGCCTCCGGCCGCTGCGGGGACGCAG
GAAGTGGCTCCCCCACACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCGCTCTCCG
GCATGGAGAGAGAGCGGAAAGTGAGTATGCGGCTGCACCGCGGGGCCCCCGTCAACATCTCCTCGTCCGA
CCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGATTCTGGTTCGGGTGGCTTCCAGTGGT
CTTCAGTCTGTGTCGTCACCGATGAGAACTCTCCTTATTGCTGTGAAGGGCAGACAATGCATGGCTGATCT
ACTCTGTTACCAATGGCTTTACTAGTGACACGTCCCCCGGTCTAGGATCGAAATGTTAACACCGGGAGCT
CTCCAGGCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCAC
CGCTGGGGCTGCACTGCGGCCCCCAGCTGAACTCGGTTGTAACGGGGCTGGGAAGAAAAGCAGAGAGAG
AATTGCAGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGGCCGCCCTGTACTCCCTG
ACGATTCCACTGTAACTACCAATCTTCTACTTGGTTAAGACAGTTTTGTATCATTTTGCTAAAAATTATT
GGCTTAAATCTGTGTAAAGAA

Figure 4

Homo sapiens casein kinase 1, delta (CSNK1D), transcript variant 2,
mRNA Mutant

GCGCGATGGCGGCGGCTCCTTTAGGCAGCTGAAAGGGGATTTAGGCCCGGAAGATCCGAGTCCATCCGCG
GCGGGGAGAGGGCAAGCGGGACCGGTAGGGGCGGAGCAGCGGCGGCGCTCGGACTGTCCCATCCGC
CCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGGCGGTGAGGGGGC
GGAGCCGGGAGCCGGACCCGAGTAGCGGCAGCAGCGGCGCCGCTCCAGAGTTCAGACCCAGGAAGCG
GCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCGCGCATGGAGCTGAGAGTCCGGGAACAGGTACCGGCTGG
GCCGGAAGATCGGCAGCGGCTCCTTCGGAGACATCTATCTCGGTACGGACATTGCTGCAGGAGAAGAGGT
TGCCATCAAGCTTGAATGTGTCAAAGCCAAACACCCTCAGCTCCACATTGAGAGCAAAATCTACAAGATG
ATGCAGGGAGGAGTGGGCATCCCCACCATCAGATGGTGCGGGGCGAGAGGGGGACTACAACGTCATGGTGA
TGGAGCTGCTGGGGCCAAGCCTGGAGGACCTCTTCAACTTCTGCTCCAGGAAATTCAGCCTCAAAACCGT
CCTGCTGCTTGCTGACCAAAATGATCAGTCGCATCGAATACATTTCATTCAAAGAACTTCATCCACCGGGAT
GTGAAGCCAGACAACCTTCCTCATGGGCCTGGGGAAGAAGGGCAACCTGGTGATACATCATCGACTTCGGGC
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GACGGCGCGGTACGCCTCCATCAACACGCACCTTGAATTGAACAATCCCGAAGAGATGACTTGGAGTCT
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GACAGAAATACGAAAGGATTAGCGAGAAGAAAATGTCCACCCCATCGAAGTGTTGTGTAAAGGCTACCC
TTCCGAATTTGCCACATACCTGAATTTCTGCCGTTCTTGCCTTTTGACGACAAGCCTGACTACTCGTAC
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GAGACTCTCGCGGAACCCGGCTACCCGCGGCCTCCCTTCCACAGCCTCCGGCCGCTGCGGGGGACGCAG
GAAGTGGCTCCCCCACCACCCCTCACCCCTACCTCACACACGGCTAACACCTCCCCCGGCCCGTCTCCG
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CCTCACAGGCCGACAAGATACCTCTCGCATGTCCACCTCACAGAATAGCATTCTTTTGAACACCACGGC
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GCCACTCACCCAGCGACGCTCGTGGGGGAAACATACTAAACGGACAGACTCCAAGAGCTGCCACCGCTGG
GGCTGCACTGCGGCCCCCAGTGAACTCGGTTGTAAACGGGGCTGGGAAGAAAAGCAGAGAGAGAATTGC
AGAGAATCAGACTCCTTTTCCAGGGCCTCAGCTCCCTCCAGTGGTGCCCGCCCTGTACTCCCTGACGATT
CCACTGTAACCTACCAATCTTCTACTTGGTTAAGACAGTTTTTGTATCATTTTGTCTAAAAATTATTGGCTTA
AATCTGTGTAAAGAA
AAAAAA

Figure 5

A.

>gi|20149530|ref|NP_001884.2| casein kinase 1, delta, isoform 1 [Homo sapiens] Mutant
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKAKHPQLHIESKIYKMMQGGVGIIPTIRW
CGAEGDYNVMVMELLGPSLEDLFNFC SRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTSQIPGRVASSGLQSVVHR

B.

>gi|20544145|ref|NP_620693.1| casein kinase 1, delta, isoform 2 [Homo sapiens] Mutant
MELRVGNRYRLGRKIGSGSFGDIYLGTDIAAGEEVAIKLECVKAKHPQLHIESKIYKMMQGGVGIIPTIRW
CGAEGDYNVMVMELLGPSLEDLFNFC SRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFATYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGASRAADDAERERRDREERLRHSRNPATRGLPSTASGRLRGTQEVAPPTPLTPTS
HTANTS PRPVSGMERERKVSMLHRGAPVNISSDLTGRQDTSRMSTSQNSIPFEHHGK

Figure 6

>gi|23199990|ref|NM_152221.1| Homo sapiens casein kinase 1, epsilon (CSNK1E), transcript variant 1, mRNA

GGGAGGCGGGCGGGCGGGCGGGCGGGCGGGCGGCGAGAGCCAGAGCCAGAGCCCCGGCCGGGGCCGAGCGGAG
CGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCTGGGCCGGGAGAGGCTGGCGCGCCGGGGCGGCTCCGCGAATCCT
CCGGCATCCGCCCCGGCGGGCCGCCCGCCCGCGGGCAGCCCCCGAGCAGTGGCCCGGCATCGGCGCCT
TCCCGGGCGGCAAGAGTGAGCCATGAGGCTACGTGTGGGGAACAAGTACCGCCTGGGACGGAAGATCGGG
AGCGGCTCTTCGGAGATATCTACCTGGGTGCCAACATCGCCTCTGGTGAGGAAGTCGCCATCAAGCTGG
AGTGTGTGAAGACAAGACCCCCAGCTGCACATCGAGAGCAAGTTCTACAAGATGATGCAGGGTGGCGT
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CCTAGCCTCGAGGACCTGTTCAACTTCTGTTCCCGCAAATTCAGCCTCAAGACGGTGCTGCTCTTGCGCG
ACCAGATGATCAGCCGCATCGAGTATATCCACTCCAAGAACTTCATCCACCGGGACGTCAAGCCCCGACAA
CTTCCTCATGGGGCTGGGGAAGAAGGGCAACCTGGTCTACATCATCGACTTCGGCCTGGCCAAGAAGTAC
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CTTCCATCAACACGCACCTGGGCATTGAGCAAAAGCCGTGAGATGACCTGGAGACCTGGGCTACGTGCT
CATGTACTTCAACCTGGGCTCCTTGCCTGGCAGGGGCTCAAAGCAGCCCAAGCGCCAGAAGTATGAA
CGGATCAGCGAGAAGAAGATGTCTAACGCCCATCGAGGTCTCTGCAAAGGCTATCCCTCCGAATTCTCAA
CATACCTCAACTTCTGCCGCTCCCTGCGGTTTGACGACAAGCCCCGACTACTCTTACCTACGTACGCTCTT
CCGCAACCTCTTCCACCGGCAGGGCTTCTCCTATGACTACGTCTTTGACTGGAACATGCTGAAATTCCGT
GCAGCCCGGAATCCCGAGGATGTGGACCGGGAGCGGCGAGAACACGAACGCGAGGAGAGGATGGGGCAGC
TACGGGGGTCCGCGACCCGAGCCCTGCCCCCTGGCCCCACCCACGGGGGGCCACTGCCAACCGGCTCCGCGAG
TGCCCGCCGAGCCCCGTGGCTTCCACGCCAGCCTCCCGCATCCAGCCGGCTGGCAATACCTCTCCAGAGCG
ATCTCGCGGGTTCGACCGGGAGAGGAAGGTGAGTATGAGCTGCACAGGGTGCGCCCTCCCAACGCTCTCT
CCTCAGAACCTACTGGGCGGCAAGAGGTCTCCGGATCCCAGACCTCAGACAGAAGTGTGCCATTTGACCA
TCTCGGGAAGTGAGGAGAGGCCCCCATGGACCAAGTGTGCTTAGTCTTCACTGTATTTCTTTAAAA
AAAAAAAAAAAAAAAAAAAA

Figure 7

>gi|4503093|ref|NP_001885.1| casein kinase 1 epsilon; CKI-epsilon;
casein kinase I epsilon [Homo sapiens] Wild Type
MELRVGNKYRLGRKIGSGSFGDIYLGANIASGEEVAIKLECVTKHPQLHIESKFYKMMQGGVGIPSIKW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGAARNPEDVDRERREHEREERMQLRGSATRALPPGPPTGATANRLRSAAEPVAS
TPASRIQPAGNTSPRAISRVDREKRVSMRLHRGAPANVSSDLTGRQEVSRIPASQTSVPFDHLGK

Figure 8

Homo sapiens mutant casein kinase 1, epsilon (CSNK1E)

[illegible]

Figure 9

>gi|4503093|ref|NP_001885.1| casein kinase 1 epsilon; CKI-epsilon;
casein kinase I epsilon [Homo sapiens] Mutant
MELRVGNKYRLGRKIGSGSFGDIYLGANITSGEEVAIKLECVKTKHPQLHIESKFYKMMQGGVGIPSIKW
CGAEGDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFLMGLGK
KGNLVYIIDFGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGS
LPWQGLKAATKRQKYERISEKKMSTPIEVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQ
GFSYDYVFDWNMLKFGAARNPEDVDRERREHEREERMQLRGSATRALPPGPPTGATANRLRSAAEPVAS
TPASRIQPAGNTSPRAISRVDREKRVSMRLHRGAPANVSSSDLTGRQEVSRIPASQTSVPFDHLGK

Figure 10